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AMENDMENT  Address to: Assistant Commissioner for Patents Washington, D.C. 20231	Attorney Docket Confirmation No.	TOSK-004
	First Named Inventor	Fogarty
	Application Number	09/472,654
	Filing Date	December 27, 1999
	Group Art Unit	1641
	Examiner Name	M. Pham
	Title	<i>In Vivo</i> High Throughput Toxicology Screening Method

Sir:

This amendment is submitted in response to the Office Action dated May 9, 2001.

Please amend the above identified application as follows:

## In the claims:

1. (Amended) A high throughput toxicology screening method in which at least 10 different compound compositions are simultaneously assayed for toxicity, said method comprising:  
simultaneously assaying at least 10 different compound compositions for toxicity, wherein each of said at least 10 different compound compositions is assayed for toxicity by:  
(a) contacting said compound composition with a plurality of non-mammalian multi-cellular organisms; and  
(b) determining the effect of said compound composition on said non-mammalian multi-cellular organisms;  
wherein each of said compound compositions is selected from the group consisting of: known pharmacologically active compounds, chemical analogs thereof, and new candidate pharmacologically active agents.

6. (Amended) A high throughput toxicology screening method in which at least 10 different compound compositions are simultaneously assayed for toxicity, said method comprising:  
simultaneously assaying at least 10 different compound compositions for toxicity, wherein each of said at least 10 different compound compositions is assayed for toxicity by:

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